

H/2
5. (Amended) The tissue culture according to claim 4, cells or protoplasts of the tissue culture being from a tissue source selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

6. (Amended) A maize plant regenerated from the tissue culture of claim 4.

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8. (Amended) The method of claim 7 wherein the inbred maize plant produced by growing the seed of inbred line PH51H, is the female or male parent.

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14. (Amended) A maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 2, said maize plant expressing a combination of at least two traits which are not significantly different from PH51H when determined at a 5% significance level and when grown in the same environmental conditions, said traits selected from the group consisting of: a maturity of 94-100 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, female yield, scatter grain resistance, tassel size, pollen shed, hybrid yield, drydown, heat and seasonal drought tolerance, late season plant health, stalk lodging resistance, test weight, grain quality, plant height, ear placement, standability, and adaptability to the Northwest, Northcentral, and Northeast regions of the United States, Northern and Central Europe and Canada.

15. (Amended) A method for developing a maize plant in a maize plant breeding program comprising: obtaining the maize plant, or its parts, of claim 2; and employing said plant or parts as a source of breeding material using plant breeding techniques.

16. (Amended) The method of claim 15 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

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22. (Amended) The maize plant of claim 21, wherein said plant has been manipulated to be male sterile.

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24. (Amended) The tissue culture according to claim 23, cells or protoplasts of the tissue culture being from a tissue source selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

25. (Amended) A maize plant regenerated from the tissue culture of claim 23.

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27. (Amended) The method of claim 26 wherein the plant having all the physiological and morphological characteristics of inbred line PH51H is the female or male parent.

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33. (Amended) A maize plant, or parts thereof, wherein at least one ancestor of said maize plant is the maize plant of claim 21, said maize plant expressing a combination of at least two traits which are not significantly different from PH51H when determined at a 5% significance level and when grown in the same environmental conditions, said traits selected from the group consisting of: a maturity of 94-100 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, female yield, scatter grain resistance, tassel size, pollen shed, hybrid yield, drydown, heat and seasonal drought tolerance, late season plant health, stalk lodging resistance, test weight, grain quality, plant height, ear placement, standability, and adaptability to the Northwest, Northcentral, and Northeast regions of the United States, Northern and Central Europe and Canada.

34. (Amended) A method for developing a maize plant in a maize plant breeding program comprising: obtaining the maize plant, or its parts, of claim 21; and employing said plant or parts as a source of breeding material using plant breeding techniques.

35. (Amended) The method of claim 34 wherein plant breeding techniques are selected from the group consisting of: recurrent selection, backcrossing, pedigree breeding, restriction fragment length polymorphism enhanced selection, genetic marker enhanced selection, and transformation.

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41. (Amended) A PH51H-derived maize plant, or parts thereof, produced by the method of claim 40, said PH51H-derived maize plant expressing a combination of at least two

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traits which are not significantly different from PH51H when determined at a 5% significance level and when grown in the same environmental conditions, said traits selected from the group consisting of: a maturity of 94-100 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, female yield, scatter grain resistance, tassel size, pollen shed, hybrid yield, drydown, heat and seasonal drought tolerance, late season plant health, stalk lodging resistance, test weight, grain quality, plant height, ear placement, standability, and adaptability to the Northwest, Northcentral, and Northeast regions of the United States, Northern and Central Europe and Canada.

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43. (Amended) The further PH51H-derived maize plant, or parts thereof, produced by the method of claim 42.

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45. (Amended) A PH51H-derived maize plant, or parts thereof, produced by the method of claim 44, said PH51H-derived maize plant expressing a combination of at least two traits which are not significantly different from PH51H when determined at a 5% significance level and when grown in the same environmental conditions, said traits selected from the group consisting of: a maturity of 94-100 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, female yield, scatter grain resistance, tassel size, pollen shed, hybrid yield, drydown, heat and seasonal drought tolerance, late season plant health, stalk lodging resistance, test weight, grain quality, plant height, ear placement, standability, and adaptability to the Northwest, Northcentral, and Northeast regions of the United States, Northern and Central Europe and Canada.

46. (Amended) A further PH51H-derived maize plant, or parts thereof, of claim 43, wherein said further PH51H-derived maize plant or parts thereof, express a combination of at least two traits which are not significantly different from PH51H when determined at a 5% significance level and when grown in the same environmental conditions, said traits selected from the group consisting of: a maturity of 94-100 based on the Comparative Relative Maturity Rating System for harvest moisture of grain, female yield, scatter grain resistance, tassel size, pollen shed, hybrid yield, drydown, heat and